VIDEO OUTPUT PENTODE

Pentode intended for use as video output tube.

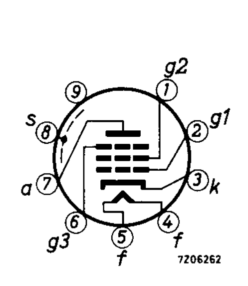
QUICK REFERENCE DATA			
Anode current	I_a	36	mA
Transconductance	S	10.5	mA/V
Amplification factor	$\mu_{g_2g_1}$	24	-

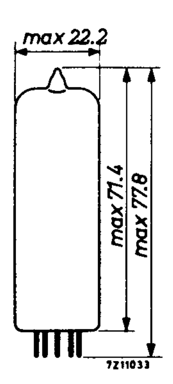
HEATING: Indirect by A.C. or D.C.; series supply

Heater current	I_f	300	mA
Heater voltage	V_f	15	V

DIMENSIONS AND CONNECTIONS Dimensions in mm

Base: Noval





CAPACITANCES

Anode to all except grid No.1	$C_{a(g_1)}$		6.6	pF
Grid No.1 to all except anode	$C_{g_1(a)}$		10.8	pF
Anode to grid No.1	C_{ag_1}	max.	0.1	pF
Grid No.1 to grid No.2	$C_{g_1g_2}$		3.2	pF
Grid No.1 to heater	C_{g_1f}	max.	0.15	pF

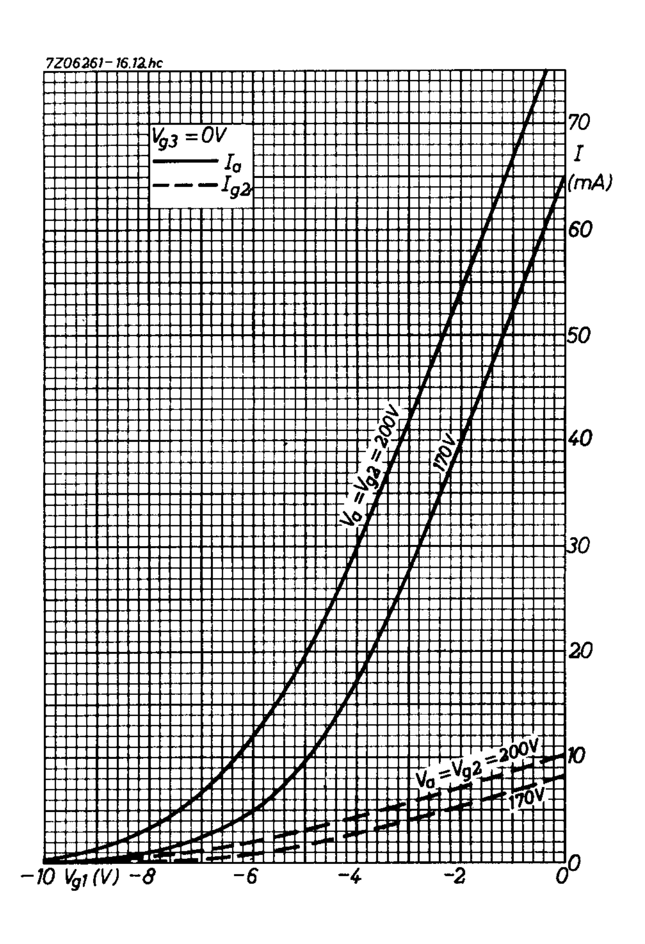
TYPICAL CHARACTERISTICS

Anode voltage	V_a	170	200	V
Grid No.3 voltage	V_{g_3}	0	0	V
Grid No.2 voltage	V_{g_2}	170	200	V
Grid No.1 voltage	V_{g_1}	-2.3	-3.5	V
Anode current	I_a	36	36	mA
Grid No.2 current	I_{g_2}	5.0	5.0	mA
Transconductance	S	10.5	10.5	mA/V
Amplification factor	$\mu_{g_2g_1}$	24	24	–
Internal resistance	R_i	0.1	0.1	MΩ

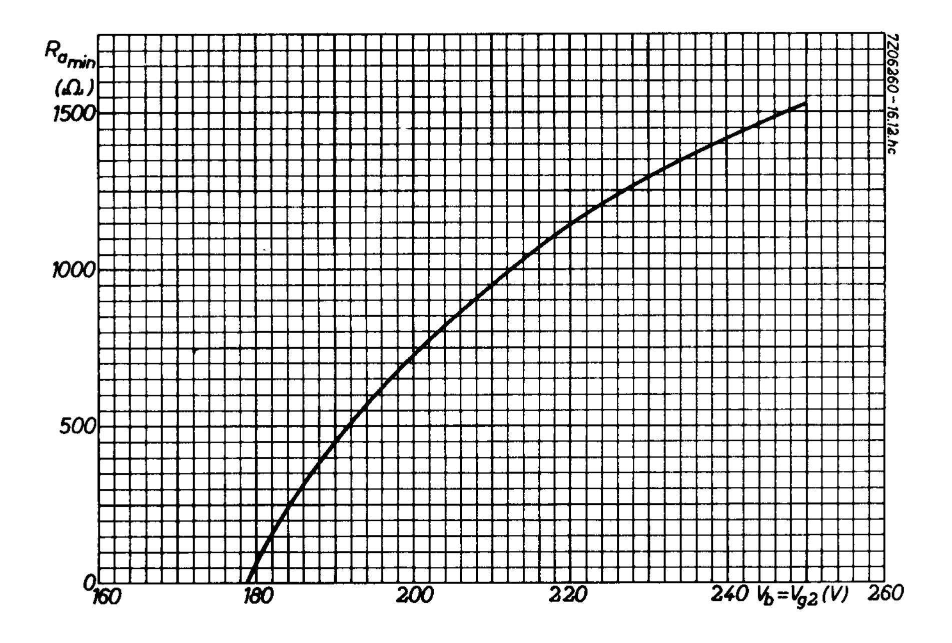
LIMITING VALUES (Design centre rating system)

Anode voltage	V_{a_o}	max.	550	V
	V_a	max.	250	V
Grid No.2 voltage	$V_{g_{2o}}$	max.	550	V
	V_{g_2}	max.	250	V
Anode dissipation	W_a	max.	9	W
Grid No.2 dissipation	W_{g_2}	max.	2	W
Cathode current	I_k	max.	70	mA
Grid No.1 resistor				
for fixed bias	R_{g_1}	max.	0.5	MΩ
for automatic bias	R_{g_1}	max.	1	MΩ
Cathode to heater voltage	V_{kf}	max.	200	V [1)]

1) D.C. component max. 150 V



7Z06261-16.12.hc
$V_{g3} = 0V$
I_a
I_{g2}
$V_a = V_{g2} = 200V$
170V
$V_a = V_{g2} = 200V$
170V
I
(mA)
70
60
50
40
30
20
10
0
−10
V_{g1} (V)
−8
−6
−4
−2
0



$R_{a_{min}}$
(Ω)
1500
1000
500
0
160
180
200
220
240 $V_b = V_{g2}$ (V)
260
7Z06260 - 16.12.hc



PL83

page	sheet	date
1	1	1969.12
2	2	1969.01
3	3	1969.01
4	4	1969.01
5	FP	1999.08.03